

## **Chapter Comm 24**

### **ELECTRICAL STANDARDS**

#### Electrical Standards

Electrical wiring in new homes shall comply with the most recent version of the Wisconsin Administrative Electrical Code, ch. Comm 16.

Chapter Comm 16 adopts the current version of the National Electrical Code (NEC) standard by reference subject to the changes, additions, or omissions specified in Comm 16 Subchapter III.

Electrical inspectors shall obtain a copy of Comm 16 in addition to the NEC.

(Many inspectors personally cross-reference Comm 16 modifications into their NEC code book effectively merging the two codes into one working document.)

The NEC is generally revised every three years. Chapter Comm 16, in turn, adopts the most recent version of the NEC. Wisconsin certified electrical inspectors are notified when the most recent version of the NEC is, in fact, adopted and effective in Wisconsin.

## NEC Standard Electrical Load Calculation for Dwellings

Owner: \_\_\_\_\_ Location: \_\_\_\_\_

Total Floor Area of Dwelling (NEC 220.12) \_\_\_\_\_ SQ FT.

Factor	Quantity	Volt Amperes (VA)
<b>“General Lighting”</b>		
1. General Lighting (SQ FT X 3 VA/SQ FT (Table 220.12))	s.f.	
2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (min. 2)		
3. Laundry Circuit (1500 VA per circuit) (NEC 220.52(B))		
4. Total General Lighting Load (Add lines 1, 2 & 3):		
5. First 3000 VA @ 100%:		3000
6. Total General Lighting Load – 3000 = _____ @ 35%=		
7. <b>Net General Lighting Load</b> (Per NEC T. 220.42) (Add lines 5 & 6):		
<b>Appliances</b>		
Total		
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% Total Appliance VA (NEC 220.53):		
<b>Other Loads (other than motors)</b>		
	Nameplate Rating (VA)	Adjusted Rating (VA)
9.		
10.		
11.		
12.		
13.		
14. <b>25% of largest motor (NEC 430.24)</b>		
<b>Total Volt-Amperes (VA) (Add lines 7, 8 &amp; 9 thru 14) =</b>		
<b>Total Volt-Amperes / 240-volts =        Amperes</b>		
<b>Conductor Size (Indicate Copper or Aluminum)</b>		
<b>Service Rating (Amperes)</b>		

Note: See 2008 NEC Annex D, Example D1